



Curriculum Vitae of Mercuri G. Kanatzidis

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Senior Scientist, Materials Science Division, Argonne National Laboratory

Birth Date: 1957; Citizenship: US

EXPERIENCE 8/06-Present: Professor of Chemistry, Northwestern University and Senior Scientist, Argonne National Laboratory, Materials Science Division, Argonne, IL
7/93-8/06: Professor of Chemistry, Michigan State University
7/91-6/93: Associate Professor, Michigan State University
7/87-6/91: Assistant Professor, Michigan State University

EDUCATION Postdoctoral Fellow, 1987, Northwestern University
Postdoctoral Associate, 1985, University of Michigan
Ph.D. Inorganic Chemistry, 1984, University of Iowa
B.S. Chemistry, November 1979, Aristotle University of Thessaloniki

AWARDS

1. Centenary Prize, 2023, the Royal Chemical Society
2. Elected to the American Academy of Arts and Sciences, 2023
3. New mineral *kanatzidisite* named by the International mineralogical Society 2023
4. Global Energy Prize, 2022 (Declined)
5. Clarivate Highly Cited Researcher since 2015 (in three different disciplines: chemistry, physics, and materials science), 2023
6. Highly Cited Researcher, Clarivate Analytics, 2019-2023 (in all three fields: Chemistry, Physics, Materials Science)
7. DOE Ten at Ten Award. In the Category Scientific Ideas Awards For the first demonstration of all-solid-state solar cells using halide perovskite materials, 2019
8. Chemical Pioneer Award, American Institute of Chemists, 2018
9. Honorary Doctorate Degree, University of Crete, 2017
10. Hershel and Hilda Rich Visiting Professorship, Technion – Israel Institute of Technology, 2017
11. ACS Award in Inorganic Chemistry, 2016
12. American Physical Society 2016 James C. McGroddy Prize for New Materials
13. APS Fellow, 2016
14. Samson Prime Minister's Prize for Innovation in Alternative Fuels for Transportation, 2016
15. Royal Chemical Society DeGennes Prize 2015
16. Elected Fellow of the Royal Chemical Society 2015
17. ENI Award for the "Renewable Energy Prize" category, 2015
18. Wilhelm Manchot Research Professorship, 2015
19. Einstein Professor, Chinese Academy of Sciences, 2014

20. MRS Medal 2014
21. International Thermoelectric Society Outstanding Achievement Award 2014
22. Cheetham Lecturer Award, the University of California Santa Barbara, 2013
23. AAAS Fellow, American Association for the Advancement of Science, 2012
24. MRS Fellow, Materials Research Society, 2010
25. Charles E. and Emma H. Morrison Professor, Northwestern University, 2006
26. Alexander von Humboldt Prize, 2003
27. Morley Medal, American Chemical Society, Cleveland Section, 2003
28. John Simon Guggenheim Foundation Fellow, 2002
29. University Distinguished Professor MSU, 2001
30. Sigma Xi 2000 Senior Meritorious Faculty Award
31. Michigan State University Distinguished Faculty Award, 1998
32. Camille and Henry Dreyfus Teacher Scholar, 1993-1998
33. Distinguished Mentor Award, Michigan State University, 1994
34. Outstanding Mentor Award, Michigan State University, 1994
35. Beckman Young Investigator, 1992-1994
36. Alfred P. Sloan Fellow, 1991-1993
37. ACS Inorganic Chemistry Division Award: EXXON Faculty Fellowship in Solid State Chemistry, 1990
38. Presidential Young Investigator Award: National Science Foundation, 1989-1994

**Publications >1,600, citations >177,000, H index 191. Patents: 60
Over 600 invited presentations. Over sixty plenary lectures.**

PROFESSIONAL SERVICE AND RECOGNITION

- Selection Committee for the 2023 Bodossaki Foundation Distinguished Young Scientist Award in Chemistry
- Editorial Advisory Board *Inorganic Chemistry*, 1994-1998; 2015-
- Editorial Advisory Board *Chemistry of Materials*, 1993-2000; 2015-
- Editorial Advisory Board *Materials Horizons*, 2015-
- Editorial Advisory Board *Chem*, 2016-
- Editorial Advisory Board *Journal of Materials Chem A*, 2016-
- Editorial Advisory Board *Joule*, 2017-
- Editorial Advisory Board *ACS Energy Letter*, 2016-
- Editorial Advisory Board *ACS Applied Materials and Interfaces*, 2018-
- Editorial Advisory Board *Journal of Materials Chemistry A*, 2013-
- Editorial Advisory Board *Journal of Alloys and Compounds 1995-2015*
- Editorial Advisory Board *Zeitschrift für anorganische und allgemeine Chemie*, 2000-
- Editorial Advisory Board *Bulletin Korean Chemical Society* 1998-
- Editor-in-Chief: *Journal of Solid State Chemistry* 1997-
- Editorial Advisory Board *Energy and Environmental Science* 2012-
- Reviewer, Manuscripts: *Journal of American Chemical Society*, *Physical Review B.*, *Physical Review Letters*, *Proceedings of the National Academy of Sciences*, *Inorganic Chemistry*, *Chemical Communications*, *Dalton Transactions*, *Accounts of Chemical Research*, *Chemistry of Materials*, *Angewandte Chemie*, *Nature*, *Nature Materials*, *Nature Chemistry*, *Nature Communications*, *Nature Energy*, *Science*, *ACS Nano*, *Chemistry – A European Journal*, *Chemical Science*, *etal.*
- Reviewer Funding Agencies: National Science Foundation, Department of Energy, Cottrell Foundation
- Chairman Solid State Chemistry Subdivision, American Chemical Society 1998-1999

- Member of Awards Committee ACS Inorganic Division Award ExxonMobil Faculty Fellow in Solid State Chemistry 2005-2007
- DOE Panel to Review the Materials Chemistry and Physics Program of Ames Lab, Iowa State University, June 2006
- Organizer of Gordon Research Conference in Solid State Chemistry, 2008
- American Chemical Society, Div. of Chemical Education, Examinations Institute Cmte
- DOE and NSF Panel Reviewer 2008-2013
- Member of Awards Committee: ACS Award for Distinguished Service in Inorganic Chemistry, 2010-2012
- Special advisory member of the Ho-Am Prize Ho-Am Foundation, Korea
- NSF Review Panel member for Division of Materials Research, March 2015
- Member of Awards Committee for APS James C. McGroddy Prize for New Materials, 2017
- AAAS Chemistry Section Steering Committee, 2017
- AAAS Electorate Nominating Committee, 2017-2019

SOCIETY MEMBERSHIPS

American Association for the Advancement of Science, American Association for Crystal Growth, American Chemical Society, American Crystallographic Association, American Physical Society, Materials Research Society, Energy Harvesting Society, Royal Chemical Society, and Sigma Xi.

SYNERGISTIC ACTIVITIES (selected)

- Contributor/participant to Report for the US Department of Energy, Office of Nuclear Energy “Innovative Separations R&D Needs for Advanced Fuel Cycles Workshop” August 30–September 1, 2021
- Guest Editor for *Inorganic Chemistry* Forum Issue: “Bismuth - The Magic Element,” 2020.
- Co-organizer. APS Physics Next Workshop on Materials Design and Discovery, Long Island, NY (<https://journals.aps.org/physics-next/2017/materials-design-and-discovery>) May 15-17, 2017.
- Panelist. BES workshop: Basic Research Needs for Synthesis Science for Energy Relevant Technology in the Washington DC area. The goal of this workshop was to identify basic research needs and opportunities in synthesis science with a focus on new, emerging and scientifically challenging areas that have the potential to have significant impact on science and energy relevant technologies, May 2016.
- Panelist. Basic Research Needs on Quantum Materials for Energy Relevant Technology workshop held in Washington DC and contributed in the preparation of the final document. (https://science.energy.gov/~media/bes/pdf/reports/2016/BRNQM_rpt_Final_12-09-2016.pdf), February 2016.
- Organizer: ACS-PHYS Division: Symposium organizer “Heat to Energy Conversion” ACS National Meeting, Boston, MA August 2015.
- Co-organizer. International Symposium on Advanced Nanoporous and Nanostructured Materials, Heraklion, Crete, September 3-4, 2014.
- Co-organizer. DOE-BES Materials Chemistry PI meeting, Annapolis, MD, July 2012.
- Co-organizer. Symposium on Emerging Developments in Nanomaterials for Energy Applications Inorganic Chemistry Division, ACS National Meeting, San Diego, CA, April 2012.
- Organizer: Symposium in ACS National Meetings, INOR: “Emerging Developments in Nanomaterials for Energy Applications”, **ACS National Meeting, San Diego, CA, March 2012.**
- 9th European Conference on Thermoelectrics in Thessaloniki Greece, September 28-30, 2012.
- Co-organizer. Workshop on Emerging Opportunities in Nanostructured Semiconductors, Evanston, IL, June 2011.

- Organizer: Symposium in ACS National Meetings, INOR: Synthesis & Applications of Intermetallic Compounds, Washington, D.C., August 2009.
- Organizer: Symposium in Honor of Professor Tobin Marks ACS Award in Distinguished Service Inorganic Chemistry. ACS National Meeting in New Orleans 2008.
- Organizer Gordon Research Conference, Solid State Chemistry, New London, NH, July 2008.
- Co-organizer: Materials Research Society: Solid-State Chemistry of Inorganic Materials V
Editors: Jing Li, Nathaniel E. Brese, Mercuri G. Kanatzidis, Martin Jansen.
- Co-organizer. NSF sponsored workshop to review status and future of solid-state chemistry, June 2006.